

**A Workshop of Scientists**  
**to Develop Study Priorities, Methods and Agenda**  
**for a Long-Term Wilderness Ecosystem**  
**Research and Monitoring Program for the**  
**Frank Church -- River of No Return Wilderness**

**by**

**John C. Hendee, Director**  
**Wilderness Research Center**  
**and**  
**Jeff Yeo, Scientist/Manager**  
**Taylor Ranch Wilderness Field Station**

**Proposal for a UI FY1996 Seed Grant**

## **ABSTRACT**

The University of Idaho Wilderness Research Center has proposed organization of a "consortium of partners" to develop, fund and implement a long-term wilderness ecosystem research and monitoring project for the Frank Church -- River of No Return Wilderness (FC-RNRW). The program would feature a data management/GIS system maintained by UI, with much of the field research and monitoring activity staged from the UI-Taylor Ranch Wilderness Field Station.

The University of Idaho (Hendee) would participate as a principal in overall leadership of the effort by an Executive Steering Committee (ESC) consisting of responsible officials among the consortium partners, and would lead (Yeo) the Science Steering Committee (SSC) that will advise the Executive Committee on desirable research and monitoring priorities, data collection protocols, merits of proposals based on peer review, and oversee their implementation of studies and provide continuing review. The Science Steering Committee will be very influential in shaping direction of the research and monitoring effort which will create significant external funding opportunities for UI faculty and support for graduate students.

This proposal requests \$6000 in seed money support for a workshop of scientists having interests and qualifications in the wilderness ecosystem research and monitoring, in Spring 1996, to develop study priorities, methods, and agenda for an overall research and monitoring effort in the FC-RNRW. The workshop will review in the field, proposed study sites, methods, and data collection protocols. These scientists, up to twelve in number, will then develop specific proposals for studies that will hopefully be funded and integrated into the research and monitoring program.

## NARRATIVE:

The University of Idaho has operated a Wilderness Research Center and its Taylor Ranch Wilderness Field Station for 25 years. While significant research has been completed during this interval (Hendee et. al. 1993), there has not been coordination and integration of individual studies into a program of research and monitoring. During this period the importance of wilderness ecosystem research and monitoring has greatly increased due to the need for baseline information to assess global change, provide information on natural ecosystem processes to help guide ecosystem protection and management in wilderness and elsewhere and to address critical emerging issues such as forest and range health, invasion and spread of exotic plant species, fire management and management of fish and wildlife populations including several endangered species.

In 1994 the University of Idaho celebrated the 25th anniversary of the UI-WRC, expanded the WRC with restoration of a full-time director and new offices and rededicated it to expanded contributions in the future. Since there is no research budget for WRC, external funding for research is required. The Taylor Ranch Wilderness Field Station is located in the middle of the Frank Church -- River of No Return Wilderness administered by the US Forest Service (FS), and is surround by other FS administered wilderness (Selway-Bitterroot, Gospel Hump, Sawtooth), this central Idaho location of four million acres of virtually continuous designated wilderness and adjacent roadless lands provides an internationally unique opportunity for wilderness ecosystem research and monitoring. This opportunity is recognized in "Vision for Science in the Frank Church -- River of No Return Wilderness" (Yeo, Krumpke and Hendee 1993) presented to a major symposium on visions for the future of the FC-RNRW wilderness.

To implement an expanded vision for science and ecosystem monitoring in the wilderness in the vicinity of the Taylor Ranch Wilderness Field Station, WRC Director John Hendee was invited to present a proposal to a Wilderness and Global Change Conference hosted by the National Biological Service in Fort Collins, Colorado, January 16-18, 1995. Encouraged by the response to the proposal for "A Waterfall Creek Transect..." near Taylor Ranch (Hendee and Yeo 1995), WRC convened a workshop February 7, of potential partners in the major research and monitoring effort and received valuable advice and encouragement to revise the proposal. Subsequently, WRC Director Hendee was invited to present the revised proposal to the Forest Service "Wilderness Policy Council" in Ogden March 7. Continued encouragement of UI-WRC leadership in mobilizing a consortium of partners to develop and implement a long-term wilderness ecosystem research and monitoring effort in the FC-RNRW is anticipated. The heart of this leadership will be hosting a field workshop of scientists to develop study priorities, methods, and agenda for which funding will be requested.

The proposed workshop would result in development of proposed priorities for study, methods and an agenda for cross disciplinary research and associated funding for which scientists from UI and other Idaho institutions would be well qualified and positioned to compete. Leadership of and participation in such a program of wilderness research and monitoring would utilize the UI-WRC and its Taylor Ranch Wilderness Field Station and help develop the potential of these facilities.

Thus, while specific proposals for agency funding have not been submitted, we are encouraged by the prospects of the proposed see grant leading to significant external funding. The proposed program of research and monitoring would also be of great service to Idaho by helping develop the scientific value of its unrivaled, pristine wilderness resources. The program would help fulfill a long-standing challenge for the UI-WRC and Taylor Ranch to build an expanded and coordinated program of research involving pertinent, campus-wide faculty and highly competent external experts from other universities and agencies.

This proposal is senior authored by the newly appointed Director of the UI-WRC (Hendee), and co-authored by the Scientist/Manager for the Taylor Ranch Wilderness Field Station (Yeo). The proposal would help provide for development of an expanded, cross-disciplinary research program at Taylor Ranch Wilderness Field Station. The funds would help support the transition of a senior faculty member (Hendee) who is joining the faculty and the position of Director of WRC following nine years as CFWR Dean. The proposed effort also directly supports the renewed and expanded commitment and investment of UI to develop a much stronger and better coordinated program of cross-disciplinary wilderness research facilitated by the UI-WRC.

#### LITERATURE CITED:

Hendee, John C., J. J. Yeo, V. LaSalle, and J. Akenson. 1993. The University of Idaho Taylor Ranch Wilderness Field Station. Misc. Publ. No. 15, Idaho For., Wildl, and Range Expt. Sta., Univ. of Idaho, Moscow, Idaho, 37pp.

Hendee, John C. And Jeff Yeo. 1995. Proposal for a Long-Term Wilderness Ecosystem Research and Monitoring System in the Frank Church -- River of No Return Wilderness. Presented to the Forest Service Region 4 Wilderness Policy Council, March 2, 1995, Ogden.

Yeo, J.J., E.E. Krumpe, and J.C. Hendee. 1993. A Vision for Science and Education. Pages 32-33 in Visions of the Future, The Frank Church-- River of No Return Wilderness Symposium. March 25-27, Boise, Idaho.

## BUDGET

Travel for scientists to travel to the Taylor Ranch Wilderness Field Station from Moscow, 4 round-trips (12 scientists -- negotiated rate)	\$2,400
Food, lodging, support at Taylor Ranch 3 days (lodging at regular rate of \$10/night, plus \$10/day for group purchase of food = \$20/day X 3 days X 12 persons)	\$ 720
Packing gear to field site -- 4 horses @ \$10 each/day + Wrangler \$50/day X 2 days	\$ 180
Stipends for faculty to write proposals within deadline after workshop. \$200 X 9 scientists (UI-WRC persons not eligible)	\$1,800
Extra help with food preparation, shopping, moving gear, cleanup (Temporary help \$30/day X 5 days)	\$ 150
Extra plane in and out with food, gear, extra help	\$ 350
Miscellaneous expenses arranging workshop -- telephone, fax, notebook preparation, copying materials, <u>extra water filters</u> , <u>batteries for lap top</u> , etc.	\$ 400
TOTAL	\$6,000

## **BIOGRAPHICAL DATA ON PRINCIPAL INVESTIGATOR:**

John C. Hendee, Ph.d.

University of Washington, 1967, Forestry (with significant interdisciplinary work in Sociology and Economics)

Appointed CFWR Dean and Tenure-Track UI Faculty August 1, 1985.

Present academic rank: July 1, 1994, Professor of Resource Recreation and Tourism. Director of the UI Wilderness Research Center.

## **PUBLICATIONS IN PAST FIVE YEARS:**

Hendee, John C. 1990, *Human Contact with Nature: A Primal Connection for Personal Growth and Renewal*, Paper presented to the Walden Earthcare Congress sponsored by the Center for American Studies at Concord celebrating the 20th Anniversary of Earth Day, April 20, 1990, Concord and Lincoln, Massachusetts.

Hendee, John C. 1990. *Social Science and Natural Resource Policy Analysis: Recent Experience in Idaho*, Third National Symposium of Social Science in Resource Management, May 1990.

Hendee, John C. 1990. *Being Manager and Expert Witness Is Not Enough*. My Chance Column, Journal of Forestry.

Hendee, John C. and Fran Hendee. 1990. *Big Bear Ranch: Our Own Forestry and Conservation Project*. Idaho Forester.

Hendee, John C. And Jo Ellen Force. 1991. *A Leadership Vision for Professional Foresters*, Western Forester.

Hendee, John C. and Randall Pitstick. 1992. *The Growth of Environmental and Conservation-Related Organizations: 1980-1991*, Renewable Resources Journal.

Carr, Deborah S. and John C. Hendee. 1992. *An Assessment of Current Research and Future Research Needs in the National Wilderness Preservation System*. Proceedings of Soc. Am. Foresters Annual Meeting.

Hendee, John C., George H. Stankey, and Robert C. Lucas. 1992. *Wilderness Management*, 2nd Edition, No. Am. Press of Fulcrum Publ. 546p.

Hendee, John C. With the National Research Council Committee on Science in the National Parks. 1992. *Science in the Parks*, National Research Council.

- Hendee, John C., Jeff Yeo, Vito LaSalle, and James Akenson. 1993. *The University of Idaho Taylor Ranch Wilderness Field Station*, Miscellaneous Publication Number 15, Idaho Forest, Wildlife and Range Experience Station, January, 1993.
- Hendee, John C. and Alan Ewert. 1993. *Wilderness Research: Future Needs and Directions*, Journal of Forestry, Vol. 91, No. 2, February 1993.
- Yeo, J.J., E.E. Krumpe, and J.C. Hendee. 1993. A Vision for Science and Education. Pages 32-33 in *Visions of the Future*, The Frank Church--River of No Return Wilderness Symposium. March 25-27, Boise, Idaho.
- Hendee, John C. and Pitstick, Randall. 1993. *The Use of Wilderness for Personal Growth, Therapy and Human Inspiration*. Plenary presentation 5th World Wilderness Congress, Tromso, Norway.
- Hendee, John C. and Vance Martin, eds. 1993. *International Wilderness Application, Management and Research: Proceedings from a Symposium of the Fifth World Wilderness Congress*. Tromso, Norway. The WILD Foundation and University of Idaho Wilderness Research Center, Moscow, Idaho 83844. 334 pp.
- Pitstick, Randall, John C. Hendee and Ivy Lanthier. 1993. *The Wilderness Discovery Program for Poverty Youth in the U.S. Forest Service--Curlew Job Corps Conservation Center on the Colville National Forest*. In Hendee and Martin, Eds. *Proceedings from a Symposium of the 5th World Wilderness Congress*, Tromso, Norway, September 28, 1993.
- Hendee, John C. and Randall Pitstick. 1994. *Growth and Change in US Forest-Related Environmental Groups*, Journal of Forestry, Volume 92, Number 6, June 1994.
- Hendee, John C. and Randall Pitstick. 1994. *Wilderness Experience Programs for Personal Growth, Therapy, Education, and Leadership Development: Their Extent, Social Economic and Ecological Impact and Ecosystem Management Policy Implications. A Five Year Program of Research Under McIntire-Stennis and Other Funding*.
- Hendee, John C. and Randall Pitstick. 1994. *Wilderness Discovery: A Wilderness Experience Program for Youth-At-Risk Being Tested In the Federal Job Corps*. Summary paper presented to 6th National Wilderness Conference at Santa Fe, November 1994.
- Sharpe, Grant W., Clare W. Hendee, Wenonah Sharpe, and John C. Hendee. 1994. *Introduction to Forest and Renewable Resources*, McGraw-Hill, 664p.

Hendee, John C. and Jeff Yeo. 1995. Proposal for a Long-Term Wilderness Ecosystem Research and Monitoring System in the Frank Church -- River of No Return Wilderness. Presented to the Forest Service Region 4 Wilderness Policy Council, March 2, 1995, Ogden.

Hendee, John C. 1995. *Universities Must Play A Larger Role in Wilderness Research*, Trends in Parks and Recreation, March 1995 issue.

Christiansen, Norm, Chair and John C. Hendee with the National Research Council Committee on Environmental Issues in NW Forest Management. (In press).

**PROPOSALS SUBMITTED/FUNDED (5 YEARS):**

Wilderness Experience Programs for Personal Growth, Therapy, Education and Leadership Development: Their Extent, Social, Economic and Ecological Impact and Ecosystem Management Policy Implications. A Five Year Program of Research Under McIntire-Stennis and other funding. \$150,000 over 5 years

The Meaning of Wilderness to Economically Disadvantaged Youth. U.S. Forest Service--Aldo Leopold Wilderness Research Institute. Two grants: Phase I and Phase II for 1994-1997 \$ 24,000

The Effects of Participation in Wilderness Discovery, A Seven Day Wilderness Experience Program for Youth-At-Risk in the Federal Job Corps. U. S. Dept. of Labor 1994-1996 \$ 86,5000

Financial Support in kind by hiring Wilderness Discovery Leaders and Assistants, at one Job Corps Center 1993 (\$10,000) at Three Job Corps Centers 1994 (\$30,000), 1995 at 3 Centers (\$30,00) Forest Service \$ 70,000

Training & oversight plus travel and miscellaneous expenses for Wilderness Discovery by WRC through grants to WRC 1994 at 3 Centers (\$10,000); 1995 at 3 Centers (\$10,00) U.S. Forest Service \$ 20,000

Special Study of Wilderness Discovery at East Job Corps Center 1995 -- Dept. Of Labor (Verbally Committed) \$ 25,000